

## 5mm x 20mm Fuses

### S501 Series, Fast Acting, Ceramic Tube

#### Description

- Fast acting
- Optional axial leads available
- 5mm x 20mm physical size
- Ceramic tube, nickel brass endcap construction
- Designed to IEC 60127-2



| ELECTRICAL CHARACTERISTICS |               |               |                |       |             |        |              |
|----------------------------|---------------|---------------|----------------|-------|-------------|--------|--------------|
| In                         | 1.5 In<br>min | 2.1 In<br>max | 2.75 In<br>min | max   | 4 In<br>min | max    | 10 In<br>max |
| 50mA-3.15A                 | 60 min        | 30 min        | 10 ms          | 2 sec | 3 ms        | 300 ms | 20 ms        |
| 4A-10A                     | 60 min        | 30 min        | 10 ms          | 3 sec | 3 ms        | 300 ms | 20 ms        |

#### Agency Information

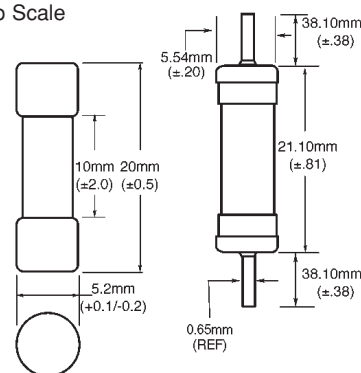
- UL Recognized Card: (50mA and 315mA-10A) Guide JDYX2, File E19180
- CSA Component Acceptance: File 53787
- cURus Recognition: Guide JDYX8, File E19180
- Semko Approval 50mA, 160mA-10A
- VDE Approval 1.25A-10A
- IMQ Approval 50mA, and 2A-10A

#### Ordering

- Specify packaging, product, and option code
- For -R option, drop mA or A from product code (i.e. S501-2-R)

#### Dimensions

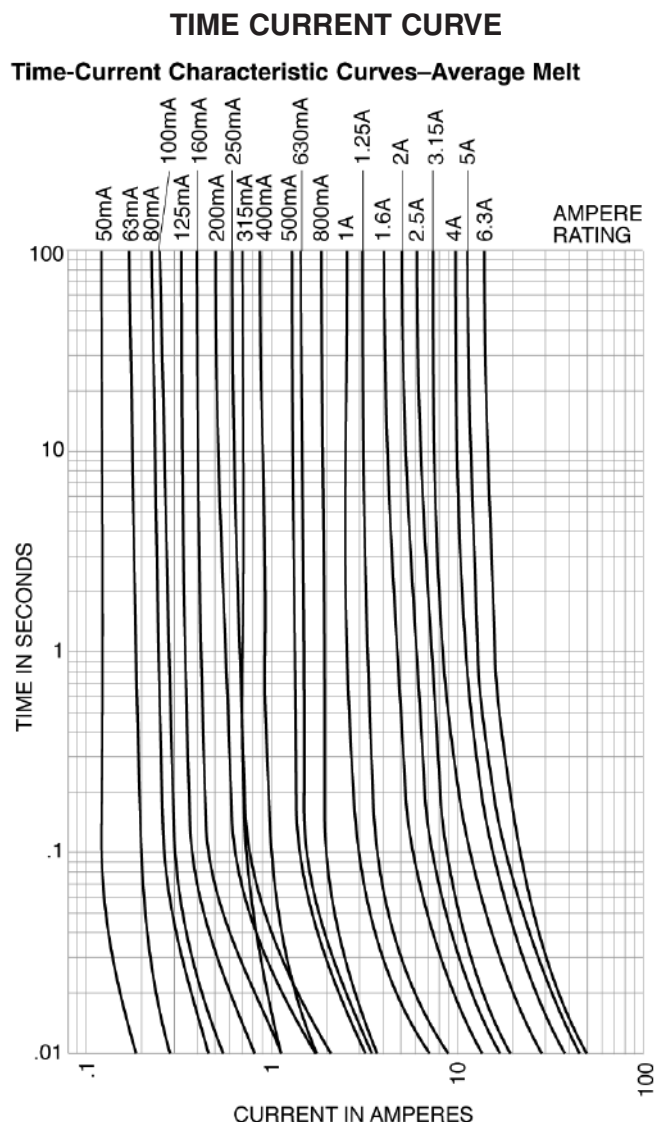
Drawing Not to Scale



- Ratings above 6.3A have a 0.8mm diameter lead

| SPECIFICATIONS |                      |                                               |                                                                |                                  |
|----------------|----------------------|-----------------------------------------------|----------------------------------------------------------------|----------------------------------|
| Product Code   | Voltage Rating<br>AC | Interrupting Rating<br>at Rated Voltage<br>AC | Typical<br>Melting I <sup>2</sup> t (A <sup>2</sup> Sec)<br>AC | Typical<br>Voltage<br>Drop (mV)‡ |
| S501-50mA      | 250V                 | 1500A                                         | 0.0017                                                         | 9000                             |
| S501-63mA      | 250V                 | 1500A                                         | 0.0005                                                         | 3300                             |
| S501-80mA      | 250V                 | 1500A                                         | 0.0011                                                         | 2600                             |
| S501-100mA     | 250V                 | 1500A                                         | 0.0018                                                         | 2300                             |
| S501-125mA     | 250V                 | 1500A                                         | 0.0037                                                         | 1900                             |
| S501-160mA     | 250V                 | 1500A                                         | 0.008                                                          | 1600                             |
| S501-200mA     | 250V                 | 1500A                                         | 0.020                                                          | 1350                             |
| S501-250mA     | 250V                 | 1500A                                         | 0.027                                                          | 1300                             |
| S501-315mA     | 250V                 | 1500A                                         | 0.010                                                          | 1400                             |
| S501-400mA     | 250V                 | 1500A                                         | 0.018                                                          | 1200                             |
| S501-500mA     | 250V                 | 1500A                                         | 0.038                                                          | 1050                             |
| S501-630mA     | 250V                 | 1500A                                         | 0.064                                                          | 1200                             |
| S501-800mA     | 250V                 | 1500A                                         | 0.097                                                          | 490                              |
| S501-1A        | 250V                 | 1500A                                         | 0.480                                                          | 230                              |
| S501-1.25A     | 250V                 | 1500A                                         | 0.9                                                            | 200                              |
| S501-1.6A      | 250V                 | 1500A                                         | 1.9                                                            | 180                              |
| S501-2A        | 250V                 | 1500A                                         | 2.0                                                            | 205                              |
| S501-2.5A      | 250V                 | 1500A                                         | 3.9                                                            | 190                              |
| S501-3.15A     | 250V                 | 1500A                                         | 8.1                                                            | 160                              |
| S501-4A        | 250V                 | 1500A                                         | 14                                                             | 160                              |
| S501-5A        | 250V                 | 1500A                                         | 25                                                             | 155                              |
| S501-6.3A      | 250V                 | 1500A                                         | 48                                                             | 150                              |
| S501-8A        | 250V                 | 1500A                                         | N/A                                                            | N/A                              |
| S501-10A       | 250V                 | 1500A                                         | N/A                                                            | N/A                              |

‡ Typical Voltage Drop (Voltage drop was measured at 20°C ambient temperature at rated current)



| PACKAGING CODE |                                                    |
|----------------|----------------------------------------------------|
| Packaging Code | Description                                        |
| BK             | 100 pieces of fuses packed into a cardboard carton |
| BK1            | 1,000 pieces of fuses packed into a poly bag       |
| TR2            | 1,500 pieces of fuses packed into tape on a reel   |

| OPTION CODE |                                                                    |
|-------------|--------------------------------------------------------------------|
| Option Code | Description                                                        |
| V           | Axial leads - copper tinned wire with nickel plated brass overcaps |
| -R          | RoHS compliant version                                             |